CONTENTS OF VOLUME 441

September 1991

BLATZ Andrew L. Properties of single fast chloride channels from rat cerebral cortex neurons. 1

HÄBERLE D.A. & KÖNIGBAUER B. Inhibition of tubuloglomerular feedback by the D1 agonist fenoldopam in chronically salt-loaded rats. 23

AMÉDÉE T., ELLIE E., DUPOUY B. & VINCENT J.D. Voltage-dependent calcium and potassium channels in Schwann cells cultured from dorsal root ganglia of the mouse. 35

UGAWA Y., DAY B.L., ROTHWELL J.C., THOMPSON P.D., MERTON P.A. & MARSDEN C.D. Modulation of motor cortical excitability by electrical stimulation over the cerebellum in man. 57

LIN Lin-Er, MCCLELLAN George, WEISBERG Andrea & WINEGARD Saul A physiological basis for variation in the contractile properties of isolated rat heart. 73

BONHAM Ann C. & JOAD Jesse P. Neurones in commissural nucleus tractus solitarii required for full expression of the pulmonary C fibre reflex in rat. 95

MATSUBARA I., YAGI N., SAEKI Y. & KURIHARA S. Cross-bridge movement in fast and slow skeletal muscles of the chick. 113

ROPERT Nicole & GUY Nicolas Serotonin facilitates GABAergic transmission in the CA1 region of rat hippocampus *in vitro*. 121

BROWN D., LIVESEY G. & DAUNCEY M.J. Influence of mild cold on the components of 24 hour thermogenesis in rats. 137

LERESCHE Nathalie, LIGHTOWLER Sean, SOLTESZ Ivan, JASSIK-GERSCHENFELD Dora & CRUNELLI Vincenzo Low-frequency oscillatory activities intrinsic to rat and cat thalamocortical cells. 155

SOLTESZ Ivan, LIGHTOWLER Sean, LERESCHE Nathalie, JASSIK-GERSCHENFELD Dora, POLLARD Christopher E. & CRUNELLI Vincenzo Two inward currents and the transformation of low-frequency oscillations of rat and cat thalamocortical cells. 175

REICHLING David B. & MACDERMOTT Amy B. Lanthanum actions on excitatory amino acid-gated currents and voltage-gated calcium currents in rat dorsal horn neurons. 199

DELPIRE Eric & LAUF Peter K. Magnesium and ATP dependence of K–Cl cotransport in low K^+ sheep red blood cells. 219

SCHMALBRUCH H., AL-AMOOD W.S. & LEWIS D.M. Morphology of long-term denervated rat soleus muscle and the effect of chronic electrical stimulation. 233

AL-AMOOD W.S., LEWIS D.M. & SCHMALBRUCH H. Effects of chronic electrical stimulation on contractile properties of long-term denervated rat skeletal muscle. 243

EKEROT C.-F., GARWICZ M. & SCHOUENBORG J. Topography and nociceptive receptive fields of climbing fibres projecting to the cerebellar anterior lobe in the cat. 257

EKEROT C.-F., GARWICZ M. & SCHOUENBORG J. The postsynaptic dorsal column pathway mediates cutaneous nociceptive information to cerebellar climbing fibres in the cat. 275

HOU Tien-Tzu, JOHNSON J. David & RALL Jack A. Parvalbumin content and Ca^{2+} and Mg^{2+} dissociation rates correlated with changes in relaxation rate of frog muscle fibres. 285

GULATI Jagdish, SONNENBLICK Edmund & BABU Árvind The role of troponin C in the length dependence of Ca^{2+}-sensitive force of mammalian skeletal and cardiac muscles. 305

WANG Rui, KARPINSKI Edward & PANG Peter K.T. Parathyroid hormone selectively inhibits L-type calcium channels in single vascular smooth muscle cells of the rat. 325

LANE John W., MCBRIDE Don W. JR & HAMILL Owen P. Amiloride block of the mechanosensitive cation channel in *Xenopus* oocytes. 347

KEEF K.D., HOTTENSTEIN O.D., MEEHAN A.G., ANTHONY T.L. & KREULEN D.L. Comparison of neurotransmission with nerve trunk and transmural field stimulation in guinea-pig mesenteric artery. 367

BRUSSAARD Arjen B., LODDER Johannes C., TER MAAT Andries, DE VLIEGER Theo A. & KITS Karel S. Inhibitory modulation by FMRFamide of the voltage-gated sodium current in identified neurones in *Lymnaea stagnalis*. 385

GRUBB B.D., HARRIS J.B. & SCHOFIELD I.S. Neuromuscular transmission at newly formed neuromuscular junctions in the regenerating soleus muscle of the rat. 405

RANATUNGA K.W. & GEEVES M.A. Changes produced by increased hydrostatic pressure in isometric contractions of rat fast muscle. 423

COATES E. Lee, LI Aihua & NATTIE Eugene E. Acetazolamide on the ventral medulla of the cat increases phrenic output and delays the ventilatory response to CO_2. 433

SCHOLZ Holger, KAISSLING Brigitte, INAGAMI Tadashi & KURTZ Armin Differential response of renin secretion to vasoconstrictors in the isolated perfused rat kidney. 453

GOELST K., MITCHELL D. & LABURN H. Effects of α-melanocyte stimulating hormone on fever caused by endotoxin in rabbits. 469

PACAUD P. & BOLTON T.B. Relation between muscarinic receptor cationic current and internal calcium in guinea-pig jejunal smooth muscle cells. 477

DE CORT S.C., INNES J.A., BARSTOW T.J. & GUZ A. Cardiac output, oxygen consumption and arteriovenous oxygen difference following a sudden rise in exercise level in humans. 501

BOSTOCK H., BAKER M., GRAFE P. & REID G. Changes in excitability and accommodation of human motor axons following brief periods of ischaemia. 513

BOSTOCK H., BAKER M. & REID G. Changes in excitability of human motor axons underlying post-ischaemic fasciculations: evidence for two stable states. 537

SAGE Stewart O., RINK Timothy J. & MAHAUT-SMITH Martyn P. Resting and ADP-evoked changes in cytosolic free sodium concentration in human platelets loaded with the indicator SBFI. 559

SUÁREZ-ISLA Benjamín A., ALCAYAGA Carmen, MARENGO Juan José & BULL Ricardo Activation of inositol trisphosphate-sensitive Ca^{2+} channels of sarcoplasmic reticulum from frog skeletal muscle. 575

HATA Y., TSUMOTO T., SATO H. & TAMURA H. Horizontal interactions between visual cortical neurones studied by cross-correlation analysis in the cat. 593

SIMS Stephen M., LUSSIER Benoit T. & KRAICER Jacob Somatostatin activates an inwardly rectifying K^+ conductance in freshly dispersed rat somatotrophs. 615

KLEIN Michael G., KOVACS Laszlo, SIMON Bruce J. & SCHNEIDER Martin F. Decline of myoplasmic Ca^{2+}, recovery of calcium release and sarcoplasmic Ca^{2+} pump properties in frog skeletal muscle. 639

FEDIDA David, BRAUN Andrew P. & GILES Wayne R. α_1-Adrenoceptors reduce background K^+ current in rabbit ventricular myocytes. 673

OHNO T. & KODAMA T. Kinetics of adenosine triphosphate hydrolysis by shortening myofibrils from rabbit psoas muscle. 685

BRENNER Bernhard & YU Leepo C. Characterization of radial force and radial stiffness in Ca^{2+}-activated skinned fibres of the rabbit psoas muscle. 703

MORGAN David L., CLAFLIN Dennis R. & JULIAN Fred J. Tension as a function of sarcomere length and velocity of shortening in single skeletal muscle fibres of the frog. 719

GU Xiaonan, MULLER Kenneth J. & YOUNG Steven R. Synaptic integration at a sensory–motor reflex in the leech. 733

GU Xiaonan Effect of conduction block at axon bifurcations on synaptic transmission to different postsynaptic neurones in the leech. 755